

CTE Standards Unpacking Digital Production for Entertainment

Course: Digital Production for Entertainment

Course Description: Digital Production for Entertainment prepares students to extend their knowledge of computer programing and design. Students will be given opportunities to design, implement, and present meaningful entertainment through a variety of media.

Career Cluster: Arts, A/V Technology, Communications

Prerequisites: Algebra I or Programming I

Program of Study Application: Digital Production for Entertainment is a Level IV pathway course appropriate for two pathways in the Arts/AV Technology &

Communications cluster: Telecommunications/A-V Technology & Film and Visual Arts.

INDICATOR #DPE 1: Develop an Awareness of Opportunities and Professionalism in Digital Entertainment careers

SUB-INDICATOR 1.1 (Webb Level: 2 Skill/Concept): Identify personal interests and abilities related to careers in digital entertainment

SUB-INDICATOR 1.2 (Webb Level: 2 Skill/Concept): Investigate opportunities, trends, and requirements related to careers in digital entertainment

SUB-INDICATOR 1.3 (Webb Level: 3 Strategic Thinking): Demonstrate job skills for digital entertainment industries.

SUB-INDICATOR 1.4 (Webb Level: 3 Strategic Thinking): Explore legal and ethical issues related to digital entertainment

issues related to digital entertainment			
Knowledge (Factual):	Understand (Conceptual):	Do (Application):	
-Employability skills.	-How to work as part of a	-Complete a personal	
	team and take direction	interest self-assessment.	
-Various avenues for	from others.		
careers in digital		-Identify personal	
production.	-Why proper application of	creative talents.	
	employability skills can help		
-Requirements for	careers advance.	-Identify	
careers.		technical/developer	
	-Current trends in digital	talents.	
-Copyright and ethics	entertainment production.		
laws.		-Research job	
	-Diverse opportunities for	opportunities.	
-Available career options	utilization of digital		
locally, regionally and	production in	-Investigate trends	
worldwide.	entertainment.	associated with digital	
		entertainment	
-Skills required for digital	-How multimedia laws		
production for	protect creators and users.	-Chart related career	
entertainment.	-Consequences of ignoring	pathways.	



	multimedia laws.	-Research instruction and forms for registration of digital entertainment products.
Benchmarks:	.1 . 1.1., .	

Students will be assessed on their ability to:

- Complete a web quest on legal issues related to digital production for entertainment and present findings.
- Compare and contrast two or more career opportunities within the digital production in entertainment industry.

Academic Connections ELA Literacy and/or Math Standard (if applicable, Science and/or Social the Academic Standard(s):			
Studies Standard): RI.7 Integrate and evaluate multiple	-Career Exploration		
sources of information presented in different media or formats (e.g., visually, quantitatively) as well as in words in order to address a question or solve a problem			
SL.4 Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.	-Comparison/contrast of career opportunities		

INDICATOR #DPE 2: Identify and Analyze Basic Entertainment Design Elements

SUB-INDICATOR 2.1 (Webb Level: 2 Skill/Concept): Explore basic entertainment design elements.



SUB-INDICATOR 2.2 (Webb Level: 2 Skill/Concept): Explore the fundamentals of
entertainment art.	

Understand (Conceptual):	Do (Application):
-Basic graphic design	-Analyze consumer
elements.	trends.
-Entertainment and app trendsHow interface and feedback impact playabilityHow product success is determined by design and game play.	-Compare a variety of entertainment applications for playabilityApply conceptual ideas to game creation.
- t	Basic graphic design elements. Entertainment and app trends. How interface and feedback impact playability. How product success is determined by design and

Benchmarks:

Students will be assessed on their ability to:

- Write an entertainment storyline, using appropriate visualization and sound elements to meet specified expectations.
- Evaluate and rate a multileveled entertainment application for design elements and fundamentals of art.

Academic Connections

Academic Connections			
ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):	Sample Performance Task Aligned to the Academic Standard(s):		
RI.4 Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze how an author uses and refines the meaning of a key term or terms over the course of a text	-Use of career appropriate terminology to meet storyline specifications		
W.8 Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information into the	-Evaluations of design and art fundamentals		



text selectively to maintain the flow of ideas, avoiding plagiarism and following a standard format for citation.

INDICATOR #DPE 3: Create and Design Entertainment Projects			
SUB-INDICATOR 3.1 (Webb Level: 3 Strategic Thinking): Design and implement procedures and timelines.			
1	bb Level: 4 Extended Thinking)	: Develop Digital	
Production Components a	nd Resources		
 Knowledge (Factual): -Time management. -Planning and implementation steps. -Importing and organizing resources. 	 Understand (Conceptual): -Importance of planning a storyline. -Pseudo Code and how to use it. -Image optimization for file size. -File management 	Do (Application): -Evaluate a video game project -Write Pseudo Code (Sentence Format) -Create Appropriate Data Size Graphics (Low Data Volume) -Import Resources into Root Folders	

Benchmarks:

Students will be assessed on their ability to:

- Develop and implement a checklist and timeline plan for creating a design entertainment project.
- Create a Table of Object and Events (TOE) and present for peer review.
- Design a sales pitch for a product using originally written Pseudo Code, appropriate graphics and related resources.

Academic Connections			
ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard): Sample Performance Task Aligned the Academic Standard(s):			
SL.1. Initiate and participate effectively	-Peer Review of Table of Object and		



in a range of collaborative discussions	
SL.5 Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.	ch for a product

INDICATOR #DPE 4: Demonstrate Knowledge of Software Development
processes

SUB-INDICATOR 4.1 (Webb Level: 3 Strategic Thinking): Identify and utilize software development methodology

SUB-INDICATOR 4.2 (Webb Level: 2 Skill/Concept): Utilize tools for developing software applications.

SUB-INDICATOR 4.3 (Webb Level: 3 Strategic Thinking): Apply language specific programming tools/techniques.

programming tools/techniques.			
Knowledge (Factual):	Understand (Conceptual):	Do (Application):	
-Software tools.	-Coding principles.	-Demonstrate knowledge	
		of system analysis issues	
-Testing procedures for	-Roles of development team	related to design, testing,	
projects in development	members (e.g., graphic	implementation, and	
stage(s).	artist, programmer, game	maintenance.	
	analyst).		
-Design process.		-Identify and evaluate	
Disc.	-Concepts of data and	roles of team	
-Different development	procedure representation.	members/customers in	
environments to create	Cama function	the software	
software.	-Game function.	development process.	
-Various programming	-Object-oriented, event-	-Identify and assess	
languages to develop	driven design.	constraints of the	
apps and games.	arren designi	current project.	
of the sure Sures		Projecti	
		-Use prototyping	
		techniques.	
	-Modeling and analyzing	_	
	functional requirements	-Use desk checking.	
	(e.g., dataflow diagrams,		
	process specifications, and a		
	data dictionary).		
	-Software development		



environment	
-What prototypes are and how designers use them.	

Benchmarks:

Students will be assessed on their ability to:

- Identify and analyze the applicability of structured, object oriented, eventdriven logical design methods.
- Design system input, output, processing and interfaces for peer review.

Academic Connections

ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):

L.6 Acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

SL.1. Initiate and participate effectively in a range of collaborative discussions

Sample Performance Task Aligned to the Academic Standard(s):

-Use appropriate career terminology for Logical Design methods

-Peer Review of design system

INDICATOR #CE 5: Identify and Utilize a Programming Environment

SUB-INDICATOR 5.1 (Webb Level: 4 Extended Thinking): Develop an application using selected programming language or software.

SUB-INDICATOR 5.2 (Webb Level: 4 Extended Thinking): Evaluate and troubleshoot an application for distribution.

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Knowledge (Factual):	Understand (Conceptual):	Do (Application):	
-Troubleshooting	-Specific language syntax.	-Translate logical design	
processes.		into code in an	
	-How pseudo code can be	appropriate language	
-Notation	transformed to actual code.	argument.	
-Compilers	-Multiple avenues of	-Compile and debug	

	program testing.	code.
	-Coding/coding conceptsDistribution principles.	-Prepare code documentation. -Conduct code walkthrough and/or inspection. -Troubleshoot unexpected results. -Access needed information using company and manufacturers' references.
Benchmarks:	1	

Students will be assessed on their ability to:

- Design and create a video game.
- Develop programs using appropriate environment and language, defending choices.
- Using a code of choice, create an application for peer reviews.

Academic Connections				
ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):	Sample Performance Task Aligned to the Academic Standard(s):			
SL.1. Initiate and participate effectively in a range of collaborative discussions	-Peer review of code choice			
L.6 Acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or	-Appropriate use of language to defend program choice			



phrase important to comprehension or	
expression.	

Additional Resources

Please list any resources (e.g., websites, teaching guides, etc.) that would help teachers as they plan to teach these new standards.

https://developer.android.com/training/basics/firstapp/index.html

https://developer.apple.com/library/content/referencelibrary/GettingStarted/Develo

piOSAppsSwift/

https://developer.mozilla.org/en-US/Apps/Tutorials/General

https://www.codecademy.com/

https://www.python.org/about/gettingstarted/

https://codecombat.com/play/level/codewarrior

https://www.khanacademv.org/

https://scratch.mit.edu/